

FACT SHEET FOR GENERAL PERMIT FOR BIOSOLIDS MANAGEMENT

Legal Basis of the Permit Program

In accordance with Section 405 of the Federal Clean Water Act (FCWA), the United States EPA published *40 CFR Part 503, Standards for the Use or Disposal of Sewage Sludge* in February of 1993. Section 405 of the FCWA requires EPA to implement the standards of Part 503 through permits. EPA may use the National Pollutant Discharge Elimination System authorized under Section 402 of the FCWA or another federally recognized permit program; they may also delegate the permitting to the state. The 1992 State Legislature passed a bill (Chapter 70.95J RCW) consistent with the federal requirements. There is a stipulation in Chapter 70.95J RCW that biosolids meet standards established by the state. Those standards are contained in Chapter 173-308 WAC, *Biosolids Management*, and define the point at which sewage sludge becomes biosolids.

Facility or Activity Types

This permit will apply to all *treatment works treating domestic sewage* (TWTDS) that prepare biosolids for beneficial use, apply biosolids to the land, transfer biosolids to or from another facility, or dispose of biosolids in a municipal solid waste landfill. The majority of affected facilities are publicly owned wastewater treatment plants, privately owned wastewater treatment plants that treat only domestic sewage, and similar state and federal facilities (military bases, prisons, parks, etc.). Other types of facilities include but may not be limited to private composting facilities that treat biosolids as a feedstock, beneficial use facilities (private parties who seek permit coverage as a means of promoting their services by shifting administrative permitting burdens from their public/private clients), and central septage management facilities (some public and private facilities which accept mostly septage from more than one pumper source). Of the 350-400 facilities expected to fall under this permit, no more than fifteen to twenty are expected to fall in these latter categories. In some cases facilities in this latter group may secure permits from local jurisdictional health departments and, consequently, may not need to obtain coverage under the state permit program.

Geographical Coverage

This permit has statewide applicability, including federal facilities, but does not apply to activities which occur on or to facilities which are located on tribal lands. If biosolids are generated or treated on tribal lands and subsequently transported to state or federal lands, then this permit may be applicable for activities that occur outside of tribal lands.

Coverage Criteria

The permit governs the quality of biosolids which are applied to the land or transferred to other facilities and to practices at land application sites, depending on the quality of biosolids being applied to the land. Permit requirements include, but are not limited to, addressing pollutant concentrations, pathogen reduction, vector attraction reduction,

agronomic rates of application, methods and timing of application, buffers to wells and other sensitive areas, crop harvest restrictions, and site management and access.

Coverage under the general permit will be provided in two phases: 1) provisional approval, and 2) final approval. “Provisional” approval is obtained for any facility submitting a Notice of Intent and a complete Application for Coverage as provided for in the rules. Under provisional approval, a facility is authorized to carry out biosolids management activities according to the conditions of the general permit, according to conditions in any submitted plans, and in accordance with state rules. “Final” approval may be granted after department review of the original permit application and operating practices. Coverage will be approved for those facilities that submit complete and correct applications for coverage and that propose and implement practices in compliance with the conditions of the permit, state rules, and consistent with good management practices. In issuing final approval, the department may impose “additional and more stringent” conditions deemed necessary to ensure proper biosolids management; any such conditions will be subject to appeal.

Use or Disposal of Residual Solids Generated by Wastewater Treatment

Recycling/beneficial use of biosolids is the predominant management choice in Washington as it is for most states of the union. This permit supports the state's goal and statutory preference for the beneficial use of biosolids. Chapter 70.95 RCW, Washington's solid waste management law, places recycling ahead of all disposal options including incineration, landfill disposal, and energy recovery. Under Chapter 70.95J RCW, municipal sewage sludge that meets standards for beneficial use on the land is considered biosolids and regulated as a commodity, not as a solid waste. The statute further directs that biosolids be beneficially recycled to the maximum extent possible. The department strongly encourages all producers of biosolids to pursue recycling as a primary biosolids management method.

Facilities Proposed to be Covered

A notice of facilities which have submitted a *Notice of Intent to Apply for Coverage or to Renew Coverage* under this permit was published in the state register on November 18, 2003. The list of facilities can be viewed at:

<http://www.ecy.wa.gov/programs/swfa/biosolids/pdf/noifacilities.pdf>

and in Appendix 1 of this document.

Information Required to be Submitted as Part of the Application

Complete information required to be submitted by facilities seeking coverage under this general permit is outlined in the permit application located at

<http://www.ecy.wa.gov/pubs/ecy070124a.doc> or available on request from Ecology.

A summary of the contents of a complete application includes, but is not limited to, the following:

- a completed *Application for Coverage*,
- basic facility information including name, contacts, location, and relevant jurisdictions,
- information on any other environmental permits,
- a vicinity map of the facility,
- a vicinity map of any associated treatment or storage facilities,
- a treatment facility schematic,
- information on the mass of biosolids produced and managed,
- confirmation that State Environmental Policy Act requirements have been met,
- confirmation that public notice requirements have been met,
- land application plans if required,
- biosolids monitoring data if required,
- a biosolids sampling plan if required,
- a contingency plan for EQ biosolids if required,
- a temporary disposal plan if required,
- a spill response/prevention plan if required,
- any other information the applicant deems helpful or that is required by the department,
- and a signature by an appropriate official.

Characteristics of Dischargers Being Authorized Under the General Permit

Frequency of the Proposed Discharge

Treatment works operating under this permit have varying rates of biosolids production and amounts of biosolids produced. Some produce and use biosolids on almost a daily basis during certain times of the year or manage biosolids year-round. Others may produce but not use biosolids for periods ranging from one to several years. Still others (e.g. some lagoon facilities) may not technically produce biosolids until removal of solids occurs, and this may occur only sporadically—potentially as infrequently as every 20 or more years.

Quantity

Because even small variations in biosolids moisture content can translate into very large differences in production estimates, the standard practice is to express biosolids production on a dry ton basis. According to data collected from 2003 Annual Biosolids Reports, approximately 350 facilities produced approximately 95,000 dry tons of biosolids in Washington. Of that approximate total, approximately 83 percent of the biosolids were land applied; approximately 14 percent were incinerated; and approximately 3 percent were disposed in a landfill.

Pollutants of Concern

Nine pollutants of concern are regulated under the state (and federal) biosolids program: arsenic, cadmium, copper, lead, mercury, molybdenum, nickel, selenium, and zinc. In addition, the program regulates nitrogen through agronomic rate management. Among

these potential pollutants, copper, molybdenum, and zinc are plant micronutrients, and nitrogen is a plant macronutrient. The state has adopted federal standards for all regulated pollutants. Allowable (maximum) pollutant ceiling concentration limits are listed in Table 1 of WAC 173-308-160. A lower (cleaner) threshold is established in Table 3 of WAC 173-308-160. The great majority of biosolids produced in Washington meet the lower, “cleaner” standard and in fact fall far below it. Average pollutant concentrations in Washington biosolids (based on 2003 data) are as follows:

Pollutant	Parts per million
Arsenic	7.8
Cadmium	3.8
Copper	438.0
Lead	73.5
Mercury	2.5
Molybdenum	15.5
Nickel	28.4
Selenium	5.3
Zinc	730.0

Standards and Limitations

State standards are the same as federal standards and can be found in Chapter 173-308 WAC, *Biosolids Management*. In summary, biosolids must meet standards for pollutant limits, pathogen reduction, and vector attraction reduction appropriate to the intended end use. Biosolids destined for use in situations where future exposures are uncontrolled (e.g. lawns, home gardens, golf courses, top soils, etc.) must meet higher standards than biosolids that are applied to areas where access and crop harvest restrictions can be put in place.

Conditions in the Draft General Permit

This permit implements the conditions of Chapter 173-308 WAC, *Biosolids Management* in addition to imposing some additional requirements not specified in the rule. The permit (and rule) provides for the possibility of imposing additional or more stringent standards as a condition of final approval of coverage, on a case-by-case basis. These conditions may include time lines for achieving certain requirements.

Economic Impact Analysis Summary

As required by WAC 173-226-120, an Economic Impact Analysis (EIA) was conducted to assess whether or not the draft general permit might have a disproportionate economic impact on small businesses relative to large businesses. An EIA was conducted on the existing general permit in 1997. The current EIA focused strictly on the potential economic impact of the nine proposed amendments in the draft general permit, not on other conditions in the general permit which were addressed in the 1997 EIA. To summarize, the EIA concluded that the costs of the amendments to the draft general permit may have a disproportionate economic impact on small businesses relative to large businesses. However, the EIA lists a large number of cost saving features which were not

evaluated in the EIA but that are expected to reduce the impacts on small businesses. The EIA can be accessed at the following website:

<http://www.ecy.wa.gov/programs/swfa/biosolids/draftgenpermit.html>.

Procedures for the Formulation of a Final General Permit

There will be a 30-day comment period for this draft general permit. All comments received on this draft general permit by the Department of Ecology by 5:00 PM on April 8, 2005, will be considered. Appropriate changes, if any, will be made to the permit before issuing the final permit. A responsiveness summary to comments received will be prepared and available for review by April 30, 2005. Any interested person may express their comments, concerns, or recommendations regarding the proposed permit by submitting comments in writing or at a public hearing. Comments will be accepted by e-mail to dtho461@ecy.wa.gov or by other means, including U.S. mail, delivered to the Department of Ecology headquarters office by the close of the comment period. The mailing address for the Department of Ecology headquarters is: PO Box 47600, Olympia, WA 98504-7600, and the physical address (hand delivery or other means) is: 300 Desmond Drive SE, Lacey, WA 98503.

In addition, we have created a Web page that contains information and documents specific to the draft permit. You may use this page for tracking activities related to the draft permit, to make comments on the draft permit during the public comment period, or to subscribe to the general permit mailing list. This page is located at:

<http://www.ecy.wa.gov/programs/swfa/biosolids/draftgenpermit.html>.

Time and Place of Public Hearings

Two public hearings will be held on the permit. One will be held on April 6, 2005, from 6-8 PM in the Auditorium at the Department of Ecology headquarters building at 300 Desmond Drive SE, Lacey, WA 98503. The other public hearing will be held on April 7, 2005, from 6-8 PM in the Oreana Room at the Department of Ecology's Central Regional Office building at 15 West Yakima Avenue, Yakima, WA 98902.

Appendix 1: Facilities that Submitted a Notice of Intent in 2002 (sorted by facility name)

MIKE MYERS ABERDEEN & COSMOPOLIS, CITIES 1205 WEST STATE STREET ABERDEEN WA 98520

KENNETH SMITH ALBION, TOWN OF PO BOX 38 ALBION WA 99102

DAVID RINGWALD ALCOA INTALCO WORKS PO BOX 937 FERNDALE WA 98248

MIKE VAUGHAN ALCOA WENATCHEE WORKS 6200 MALAGA-ALCOA HWY MALAGA WA 98828

PAUL REHSE ALDER LAKE PARK PO BOX 11007 TACOMA WA 98411

NATHAN STOUT ALDERBROOK INN RESORT STP E 7101 HWY 106 UNION WA 98592

DARRELL FRANCIS ALMIRA, TOWN OF PO BOX 215 ALMIRA WA 98103

JOHN FRANZ ANACORTES WWTP PO BOX 547 ANACORTES WA 98221-0547

DAVE RANDOLPH ARLINGTON WWTP 238 N OLYMPIC AVE ARLINGTON WA 98223

DAN WATSON ASOTIN WWTF PO BOX 517 ASOTIN WA 99402

BRAD WAKE B+B INJECTION 196706 E 30TH KENNEWICK WA 99337

STEPHEN PYKE BAINBRIDGE ISLAND WWTF 7305 HIDDEN COVE RD NE BAINBRIDGE ISL. WA 98110

MICHAEL KALAHAR BARNES POINT WWTP 113 BARNES POINT ROAD PORT ANGELES WA 98363

MARK BANDSTRA BENTON CITY WWTF PO BOX 70 / 708 9TH ST BENTON CITY WA 99320

JOHN TAYLOR BEVERLY BEACH 2154 BEVERLY BEACH DR NW OLYMPIA WA 98502

TOM HONS BINGEN WWTP PO BOX 607 BINGEN WA 98605

ROGER HICKEY BIO RECYCLING LSP - CENTRALIA PO BOX 982 CENTRALIA WA 98531

ROGER HICKEY BIO RECYCLING LSP - MASON PO BOX 982 CENTRALIA WA 98531

STEVE HOVDE BIRCH BAY WATER & SEWER DIST 7096 POINT WHITEHORN RD BIRCH BAY WA 98230

HOWARD JOHNSTON BISHOP SANITATION, INC. PO BOX 11 GOLDENDALE WA 98620

CLIFFORD NESS BLAINE STP 1200 YEW AVE BLAINE WA 98230

GREG KENNEDY BLAKE ISLAND SP WWTP PO BOX 277 MANCHESTER WA 98353

BILL CHAMPION BOSTON HARBOR WWTP 921 LAKERIDGE DR SW BLDG #4 OLYMPIA WA 98502

BILL MCKINNEY BREMERTON WWTP 3027 OLYMPUS DRIVE BREMERTON WA 98310

LYNN LAWSON BREWSTER WWTP PO BOX 340 BREWSTER WA 98812

BRUCE PLIMPTON BRIDGEPORT WWTP PO BOX 640 BRIDGEPORT WA 98813

ROBERT BROAD BROOKS MEMORIAL STATE PARK 2465 HIGHWAY 97 GOLDENDALE WA 98620

ALAN WOLF BUCKLEY WWTP PO BOX 1960 BUCKLEY WA 98321

JOE STUMP BUENA WWTP 128 N 2ND ST ROOM 408 YAKIMA WA 98901-2614

MARVIN BURKEY BURKEY ENTERPRISES 6851 SPRING VALLEY RD NEWPORT WA 99156

ROGER LA RUE BURLINGTON WWTP 900 S SECTION ST BURLINGTON WA 98233

JAMES DICKINSON CAMAS WWTP 1620 SE 8TH AVE CAMAS WA 98607

DAVID WILLIAMS CARBONADO WWTP PO BOX 91 CARBONADO WA 98323

THOMAS RYAN CARLYON BEACH WWTP 2719 ISLAND DR NW OLYMPIA WA 98502

CHARLES CRUICKSHANK CASHMERE WWTP 101 WOODRING ST CASHMERE WA 98815
DAVID VORSE CASTLE ROCK WWTP PO BOX 370 CASTLE ROCK WA 98611
DAVID VIK CATHLAMET WWTP PO BOX 68 CATHLAMET WA 98612
EDWARD BURNS CEDAR CREEK CORRECTIONS CENTER PO BOX 37 LITTLE ROCK WA 98556
RALPH DE CLEMENTS CENTRAL KITSAP WWTP 614 DIVISION ST, MS-27 PORT ORCHARD
WA 98366
DAVID HUFFORD CENTRAL WWTP #1 2201 PORTLAND AVENUE TACOMA WA 98421-2711
JIM FLEMING CENTRALIA WWTP 1100 N TOWER AVENUE CENTRALIA WA 98531
LARRY MCCAFFREY CHAMBERS CREEK WWTP 10311 CHAMBERS CREEK RD WEST
TACOMA WA 98467-1040
RON MOELLER CHEHALIS WWTP PO BOX 871 CHEHALIS WA 98532
AL MERCHANT CHELAN WWTP 50 CHELAN FALLS RD CHELAN WA 98816
WILLIAM BENNER CHENEY BIOSOLIDS COMPOST FACIL 119 ANDERSON RD CHENEY WA
99004-1866
GREG KONGSLIE CHERRYWOOD MOBILE HOME MANOR 1305 4TH AVE #516 SEATTLE WA
98101
ROBIN HEGNEY CHEWELAH WWTP PO BOX 258 CHEWELAH WA 99109
MARK BRONSON CHEYNE STP & BS BEN. USE FACIL 105 EAST A ST YAKIMA WA 98901
LOUIE COOK CLALLAM BAY CORRECTIONS CENTER 1830 EAGLE CREST WAY CLALLAM
BAY WA 98326-9723
BRIAN RICHARDSON CLALLAM BAY SEKIU POTW PO BOX 243 CLALLAM BAY WA 98326
GARY ST. JOHN CLARK PUBLIC UTILITIES PO BOX 8900 VANCOUVER WA 98668
WES ISON CLARKSTON WWTP 830 5TH ST CLARKSTON WA 99403
DAVE SELLERS CLAYTON SEWER SYSTEM WWTP PO BOX 592 LOON LAKE WA 99148-0592
JIM LEONHARD CLE ELUM WWTP 119 WEST 1ST ST CLE ELUM WA 98922
CLAYTON MALLETT COLFAX WWTP PO BOX 229 COLFAX WA 99111
PAUL HARTWIG COLLEGE PLACE WWTP 625 S COLLEGE AVE COLLEGE PLACE WA 99324-
1516
BILL FRYE COLTON SEWER PLANT PO BOX 157 COLTON WA 99113-0157
RALPH LANE COLVILLE WWTP 170 S OAK ST COLVILLE WA 99114
LELAND MOORE CONCONULLY WWTP 219 N MAIN, PO BOX 127 CONCONULLY WA 98819
ALAN WILKINS CONCRETE WWTP PO BOX 39 CONCRETE WA 98237
PATRICK MUNYAN CONNELL WWTF PO BOX 1200 CONNELL WA 99326
ROD WEBSTER COULEE CITY WWTP PO BOX 398 COULEE CITY WA 99115
WES BURKHEAD COUNTRY VIEW WATER & SEWER DIS 200802 E GAME FARM RD
KENNEWICK WA 99337
MALCOLM BISHOP COUPEVILLE WWTP 600 NE 9TH ST COUPEVILLE WA 98239
CARL STRICKLAND COWICHE SEWER DIST WWTP PO BOX 64 COWICHE WA 98923
GERALD SCHULTZ COWLITZ WATER POLLUTION CONTRL 207 4TH AVE N KELSO WA 98626
WES TRAMMELL CRESCENT BAR WWTP 8894 CRESCENT BAR RD NW #1 QUINCY WA 98848
MARTIN BIGELOW CRESTON WWTP PO BOX 131 CRESTON WA 99117
MARK FOULE CRYSTAL MOUNTAIN INC WWTP 33914 CRYSTAL MTN BLVD CRYSTAL MTN
WA 98022
DAVID FIEROH CURLEW JOB CORPS WWTP COLVILLE NF, 765 S MAIN COLVILLE WA 99114
RODNEY MILLER CUSICK WWTP PO BOX 176 CUSICK WA 99119
DAN BOONE DAVENPORT WWTP PO BOX 26 DAVENPORT WA 99122

CHARLES LOWE DAYTON WWTP 800 STOCKTON RD DAYTON WA 99328
MARK LEWIS DEER PARK WWTP PO BOX F DEER PARK WA 99006
JEFFREY GRIFFITH DES MOINES CREEK TP PO BOX 3487 KENT WA 98032-0209
SAM PETTIGREW DIABLO WWTP 500 NEWHALEM ST ROCKPORT WA 98283
LARRY GARWOOD DIAMOND LK. W&S DIST WWTP 172 SOUTH SHORE RD NEWPORT WA
99156-9300
MARION BEESON DOUGLAS CNTY SEWER DIST#1 WWTP 692 EASTMONTT AVENUE E
WENATCHEE WA 98802
DAVE KINNEY DUVALL WWTP PO BOX 1300 DUVALL WA 98019
ROY LIGHT EASTSOUND S&W DIST WWTP PO BOX 640 EASTSOUND WA 98245
MIKE TILLER EATONVILLE WWTP PO BOX 309 EATONVILLE WA 98328
DAN KIRKMAN ECHO GLEN CHILDREN'S CENTER 33010 SE 99TH ST SNOQUALMIE WA 98042
STEPHEN KOHO EDMONDS WWTP 200 SECOND AVE S EDMONDS WA 98020
DARREL FLEISCHMAN ELECTRIC CITY WWTP PO BOX 180 GRAND COULEE WA 99133
IRMA GROGAN ELLENSBURG, CITY OF 2415 CANYON RD ELLENSBURG WA 98926
JOHN BOLING ELMA STP PO BOX E ELMA WA 98541
RODGER BLY ENDICOTT WWTP PO BOX 418 ENDICOTT WA 99125
ROGER MICKELSON ENTIAT WWTP PO BOX 228 ENTIAT WA 98822
WILLIAM BASIM ENUMCLAW WWTP 2041 RAILROAD ST. ENUMCLAW WA 98022
TROY ZERB EPHRATA WWTP 121 ALDER SW EPHRATA WA 98823
EVERETT WATER POLN CONTROL FAC 3200 CEDAR STREET EVERETT WA 98201
DENNIS SHAW EVERSON WWTP PO BOX 315 EVERSON WA 98247
CARL TOETLY FAIRFIELD WWTP PO BOX 334 FAIRFIELD WA 99012
ROYCE JOHNSON FARMINGTON WWTP PO BOX 65 FARMINGTON WA 99128
JERRY LEUENBERGER FERNDAL WWTP PO BOX 936 FERNDAL WA 98248
THOMAS BRIDGES FIRE MOUNTAIN FARMS, INC. 856 BURNT RIDGE RD CINEBAR WA 98533
MARVIN QUEEN FISHERMAN BAY STP PO BOX 86 LOPEZ ISLAND WA 98261
DAN WAHLGREN FORKS WWTP 500 EAST DIVISION FORKS WA 98331
LARRY CHAPMAN FORT CANBY STATE PARK PO BOX 488 ILWACO WA 98624
ALAN DAULTON FORT COLUMBIA SP STP PO BOX 236 CHINOOK WA 98614
ROBERT DONOVAN FORT FLAGLER STATE PARK 10541 FLAGLER RD NORDLAND WA 98358
BEN MCCONKEY FORT LEWIS WWTP PW, AFZH-PWU, MS-17 BOX 339500 FORT LEWIS WA
98433-9500
GREGG MATHEWS FREEMAN SCHOOL DIST WWTP 15001 S JACKSON RD ROCKFORD WA
99030
KEVIN KIRK FRIDAY HARBOR WWTP PO BOX 219 FRIDAY HARBOR WA 98250
DAVID ULRICK GARFIELD STP PO BOX 218 GARFIELD WA 99130
PETER SMITH GEORGE WWTP PO BOX 5277 GEORGE WA 98824
JERRY ERB GIG HARBOR WWTP 3105 JUDSON ST. GIG HARBOR WA 98335
HOWARD SINOR GLENWOOD WWTP 1313 S COLUMBUS AVE GOLDENDALE WA 98620
DAVID GRIFFIN GOLDENDALE WWTP PO BOX 69 GOLDENDALE WA 98620
BILL CHAMPION GRAND MOUND WWTP 921 LAKERIDGE DR OLYMPIA WA 98502
DAVE LORENZ GRANDVIEW WWTP 207 W SECOND ST GRANDVIEW WA 98930
LINDA BOWEN GRANGER WWTP PO BOX 1100 GRANGER WA 98932
JOHN SCHOENING GRANITE FALLS WWTP PO BOX 1440 GRANITE FALLS WA 98252

L. WINEBRENNER GROCO INC. 15 S SPOKANE ST, STE A SEATTLE WA 98134
SCOTT MCGOWAN HARRINGTON WWTP PO BOX 492 HARRINGTON WA 99134
TOM FISCHER HARTSTENE POINTE WWTP PO BOX 578 SHELTON WA 98584
MARK DUMKE HOLMES HARBOR WWTP PO BOX 1330 FREELAND WA 98249
AL GREGORY HOQUIAM, CITY OF PO BOX 300 HOQUIAM WA 98550
BOB IMHOF HORSE HEAVEN HILLS BUF 1221 FRASER STREET SUITE E-3 BELLINGHAM WA 98226
WARREN HAZEN ILWACO WWTP PO BOX 548 ILWACO WA 98624
KELLY WYNN INDIAN RIDGE WWTP 3000 ROCKEFELLER, MS 509 EVERETT WA 98201
KEN WEISS IONE WWT LAB PO BOX 498 IONE WA 99139
JIM BISHOP JIM'S PUMPING SERVICE 90 HOWARD FLAT ROAD CHELAN WA 98816
GINA DEMPSEY KAISER ALUMINUM MEAD WORKS 2111 E. HAWTHORNE RD MEAD WA 99021-9517
CARL MCCRARY KALAMA, CITY OF, WWTP PO BOX 1007 KALAMA WA 98625
TIM RICHMAN KENNEWICK, CITY OF, WWTP PO BOX 6108 KENNEWICK WA 99336
JOEL GASSAWAY KETTLE FALLS WWTP PO BOX 457 KETTLE FALLS WA 99141
RALPH DECLEMENTS KINGSTON WWTP 614 DIVISION STREET, MS-27 PORT ORCHARD WA 98366
BOB THURSTON KITSAP CNTY SEWER DIST #7 WWTP 111 WARBLER LANE PORT LUDLOW WA 98365
PATTI JOHNSON KITTITAS CNTY RYEGRASS LAGOONS 925 INDUSTRIAL WAY ELLENSBURG WA 98926
RON RODUNER KITTITAS COUNTY WATER DIST #6 PO BOX 71 VANTAGE WA 98950
CECIL HOWARD KITTITAS WWTP PO BOX 719 KITTITAS WA 98934
ERIC SHEA KICKITAT WWTP 1313 SOUTH COLUMBUS AVE GOLDENDALE WA 98620
KELLY WYNN LACONNER WWTP, SKAGIT CO SD #1 PO BOX 400 LACONNER WA 98257
DON KEENEY LACROSSE WWTP PO BOX 228 LACROSSE WA 99143
DARWIN SMITH LAKE STEVENS SEWER DIST STP 9327 4TH ST NE #8 EVERETT WA 98205
KENT WATSON LAKE WENATCHEE WWTP 21251 HWY 209 LEAVENWORTH WA 98826
LEE SHUMACHER LAKOTA WWTP 3203 SW DASH POINT RD FEDERAL WAY WA 98023
KELLY WYNN LANGLEY WWTP PO BOX 366 LANGLEY WA 98260
JAMES OJA LARCH CORRECTIONS CENTER 15314 NE DOLE VALLEY RD YACOLT WA 98675-9531
BRIAN MARTIN LARRABEE SP STP 245 CHUCKANUT DR BELLINGHAM WA 98226
MICHAEL DEASON LEAVENWORTH WWTP PO BOX 287 LEAVENWORTH WA 98826
TRAVIS MEADE LEWIS COUNTY WATER DIST #2 WWTP PO BOX 146 ONALASKA WA 98570
DAN GROGG LIBERTY LAKE WWTP 22510 E MISSION AVE LIBERTY LAKE WA 99019
JANET POTTRATZ LIBERTY SCHOOL DIST #362 WWTP S 29818 N PINE CREEK RD SPANGLE WA 99031
DUANE DAHLKE LINCOLN ROCK STATE PARK 13253 S.R. 2 EAST WENATCHEE WA 98802-9566
JIM LAIRD LIND WWTP PO BOX F LIND WA 99341
MIKE KALAHAR LOG CABIN TREATMENT PLANT 113 BARNES POINT ROAD PORT ANGELES WA 98363
SUSAN HYSOONG LONG BEACH WWTP PO BOX 310 LONG BEACH WA 98631
JEFF MATHIAS LONGMIRE WWTP TAHOMA WOODS STAR ROUTE ASHFORD WA 98304

ANNETTE JAKUBIAK LONGVIEW ALUMINUM L.L.C. PO BOX 2484 LONGVIEW WA 98632
JAY GREGORY LONGVIEW FIBRE COMPANY 300 FIBRE WAY LONGVIEW WA 98632
GERALD SCHULZ LONGVIEW LAGOONS (WEST LONGVI) 207 4TH AVE N KELSO WA 98626
JOHN LA COSS LOON LAKE SEWER DIST #4 STP PO BOX 98 LOON LAKE WA 99148
TOM WILLIAMS LOTT WWTF PO BOX 1967 OLYMPIA WA 98502
TIM MCMAHON LYLE WWTP 1313 SOUTH COLUMBUS AVE GOLDENDALE WA 98620
TAMARA ADAMS LYNDEN WWTP 323 FRONT ST LYNDEN WA 98264
DON DAVIS LYNNWOOD WWTF PO BOX 5008 LYNNWOOD WA 98046-5008
ARTURO DELEFUENTE MABTON WWTP PO BOX 655 MABTON WA 98935
GEORGE MASON MANCHESTER WWTP 614 DIVISION ST, MS-27 PORT ORCHARD WA 98366
TYLER CAILLE MANSFIELD WWTP PO BOX 218 MANSFIELD WA 98830
DALE THAYER MARYSVILLE WWTP 80 COLUMBIA AVE MARYSVILLE WA 98270
VERN MERRYMAN MCCLEARY WWTP 100 S 3RD ST MCCLEARY WA 98557
MICHAEL CALLAHAN MCNEIL ISLAND WWTP PO BOX 88900 STEILACOOM WA 98388
AL PROUTY MEDICAL LAKE WWTP PO BOX 369 MEDICAL LAKE WA 99022
CADE SCOTT MESA WWTP PO BOX 146 MESA WA 99343
MICHAEL BOYCE MESSENGER HOUSE STP 10861 NE MANITOU PARK BLVD BAINBRIDGE
ISL WA 98110
JOHN KINNEY METALINE FALLS WWTP PO BOX 277 METALINE FALLS WA 99153
JOHN KINNEY METALINE WWTP PO BOX 85 METALINE WA 99152
RON DANINGER MILLER CREEK WWT & COMPOSTING 1015 SW 174TH PL NORMANDY PARK
WA 98166-3465
OLE SPAULDING MILLERSYLVANIA STATE PARK 12245 TILLEY ROAD SOUTH OLYMPIA WA
98512
ED PASEK MONROE CORRECTIONAL COMPLEX PO BOX 777 MONROE WA 98272
DARRELL DUNN MONROE WWTP 806 W MAIN ST MONROE WA 98290
HERB VAUGHN MONTESANO WWTP 112 N MAIN ST MONTESANO WA 98563
GEORGE STREEPY MORTON WWTP PO BOX 1089 MORTON WA 98356
RICHARD LEISHMAN MOSES LAKE DUNES WWTP PO BOX 1579 MOSES LAKE WA 98837
RICHARD LEISHMAN MOSES LAKE LARSON STP PO BOX 1579 MOSES LAKE WA 98837
ERIC SHARPSTEEN MOSSYROCK WWTP PO BOX 96 MOSSYROCK WA 98564
WALTER ENQUIST MOUNT VERNON WWTP 1401 BRITT RD MOUNT VERNON WA 98273
BYRON ADAMS MOXEE WWTP PO BOX 249 MOXEE WA 98936
HAROLD HAUER JR. MULLEN HILL TERRACE MH PARK 8900 S MULLEN HILL RD #632
SPOKANE WA 99224
JOHN RATH NACHES WWTP PO BOX 95 NACHES WA 98937
RODNEY AMMER NASELLE YOUTH CAMP STP 11 YOUTH CAMP LANE NASELLE WA 98638
JOHN HUFFMAN NATURAL SELECTION FARMS INC. PO BOX 893 SUNNYSIDE WA 98944
K A SOUDERS NAVAL AIR STATION -WHIDBEY ISL 1155 WEST LEXINGTON AVE OAK
HARBOR WA 98278-3800
CURT GAUTHIER NESTLE REGIONAL TRAINING CENTR 28901 NE CARNATION FARM RD
CARNATION WA 98014-8800
SAM PETTIGREW NEWHALEM WWTP 500 NEWHALEM ST ROCKPORT WA 98283
LEROY LINTON NEWPORT WWTP S 200 WASHINGTON AVE NEWPORT WA 99156
DOUGLAS REPP NORTH BEND WWTP PO BOX 896 NORTH BEND WA 98045
RAY HAYES NORTH BONNEVILLE WWTP PO BOX 7 NORTH BONNEVILLE WA 98639

DAVID HUFFORD NORTH END PLANT #3 2201 PORTLAND AVE TACOMA WA 98421-2711
ROBERT JARSKI OAK HARBOR RBC WWTP 865 SE BARRINGTON DRV OAK HARBOR WA
98277-4092
ROBERT JARSKI OAK HARBOR SEAPLANE LAGOON WWT 865 SE BARRINGTON DR OAK
HARBOR WA 98277-4092
KEITH ONEY OAKESDALE LAGOON PO BOX 246 OAKESDALE WA 99158
MILES BEACH OCEAN SHORES WWTP PO BOX 909 OCEAN SHORES WA 98569
JEFF MATHIAS OHANAPECOSH WWTP TAHOMA WOODS STAR ROUTE ASHFORD WA 98304
CHUCK HRENLEN OKANOGAN WWTP PO BOX 752 OKANOGAN WA 98840
ROD CHRISTY OLYMPIC CORRECTIONS CENTER 11235 HOH MAINLINE FORKS WA 98331
BOB THURSTON OLYMPIC WATER & SEWER WWTP 781 WALKER WAY PORT LUDLOW WA
98365
THOMAS BRIDGES OLYMPUS TERRACE WWTP PO BOX 91 MUKILTEO WA 98275-0091
BILL PUTNAM OMAK WWTP PO BOX 72 OMAK WA 98841
ROY LIGHT ORCAS VILLAGE SEWER DIST STP PO BOX 640 EASTSOUND WA 98245
TED WILLIAMS OROVILLE WWTP PO BOX 2200 OROVILLE WA 98844
RON BASINGER ORTING WWTP PO BOX 489 ORTING WA 98360-0489
GENNA DOROW OTHELLO WWTP 500 E MAIN ST OTHELLO WA 99344
JIM HATTON PACIFIC BEACH WWTP 100 W BROADWAY SUITE 31 MONTESANO WA 98563
DON MYOTT PALOUSE WWTP PO BOX 248 PALOUSE WA 99161-0248
JEFF MATHIAS PARADISE WWTP TAHOMA WOODS STAR ROUTE ASHFORD WA 98304
MORRIS SHOOK PARADISE POINT STATE PARK RT. 1 BOX 33914 RIDGEFIELD WA 98642
HAROLD POSTHUMA PASCO WWTP PO BOX 293 PASCO WA 99301-0293
DALE PARKS PATEROS WWTP PO BOX 8 PATEROS WA 98846
DAVE NOREN PE ELL WWTP PO BOX 215 PE ELL WA 98572
DEAN THIEM PENN COVE SEWER DIST WWTP PO BOX 954 OAK HARBOR WA 98277
DAVID JOHNSTON PESHASTIN WWTP 10395 MILL RD PESHASTIN WA 98847
ARDEN BLACKLEDGE PICNIC POINT POTW (ALDERWOOD) 3626 156TH ST SW LYNNWOOD
WA 98037-2399
GLENN DAVIS POMEROY WWTP PO BOX 370 POMEROY WA 99347
JEFF YOUNG PORT ANGELES, CITY OF, WWTP 321 EAST 5TH ST, PO BOX 1150 PORT
ANGELES WA 98362
BOB THURSTON PORT GAMBLE WWTP 19245 10TH AVE NE POULSBO WA 98370
RON POULSEN PORT OF KALAMA WWTP 380 N MARINE DR KALAMA WA 98625
BUD DYER PORT ORCHARD/KARCHER CK WWTF 1165 BEACH DRIVE E PORT ORCHARD WA
98366
TED FRIEDRICH PORT TOWNSEND PAPER CORP PO BOX 3170 PORT TOWNSEND WA 98368
JIM FREITAS PORT TOWNSEND WWTP 5300 KUHN ST PORT TOWNSEND 98368
BILL MCCOURT POST POINT WWTP - BELLINGHAM 200 MCKENZIE BELLINGHAM WA 98225
JOHN PATRICK POTHOLE STATE PARK 6762 HIGHWAY 262 EAST OTHELLO WA 99344
MARK BANDSTRA PROSSER, CITY OF 601 7TH ST PROSSER WA 99350
JOHNNY PARKINS PULLMAN WWTP PO BOX 249 PULLMAN WA 99163-0249
DON LANGE PUYALLUP WPCP 2028 RIVER ROAD PUYALLUP WA 98371
RICHARD WOLF JR QUINCY WWTP PO BOX 338 QUINCY WA 98848
IRVIN CAMPBELL RAINIER STATE SCHOOL WWTP PO BOX 600 BUCKLEY WA 98321
RON HEBISH RAYMOND WWTP 300 FIRST ST RAYMOND WA 98577

DAN BOONE REARDAN WWTP PO BOX 228 REARDAN WA 99029-0228
ROBERT MYERS REDONDO WWTP PO BOX 4249 FEDERAL WAY WA 98003
CASEY GIDDINGS REPUBLIC WWTP PO BOX 331 REPUBLIC WA 99166
WILLIAM HARLAN RICHLAND WWTF PO BOX 190 RICHLAND WA 99352-0190
FRED CRIPPEN RIDGEFIELD WWTP PO BOX 608 RIDGEFIELD WA 98642
MICHAEL PEARSON RITZVILLE WWTP 206 N ADAMS ST RITZVILLE WA 99169-1417
DAVID GIBBS ROCHE HARBOR RESORT STP PO BOX 4001 ROCHE HARBOR WA 98250
PAUL SIFFORD ROCKFORD STP PO BOX 49 ROCKFORD WA 99030
DAVID STEDMAN ROCKY REACH DAM STP 6151 HWY 97A WENATCHEE WA
KEN JACOBS ROSALIA WWTP PO BOX 277 ROSALIA WA 99170
SHANNON BARNETT ROSARIO UTILITIES WWTP 1400 ROSARIO ROAD EASTSOUND WA
98245
JOE PECK ROSLYN WWTP PO BOX 451 ROSLYN WA 98941
JOHN LASEN ROYAL CITY WWTP PO BOX 1239 ROYAL CITY WA 99357
MATT MCNIVEN RUSTLEWOOD WWTP PO BOX 578 SHELTON WA 98584
DENNIS BAKER RYDERWOOD WWTP 207 FOURTH AVE N KELSO WA 98626
GREGORY GANSON SALMON CREEK WWTP 15100 NW MCCANN ROAD VANCOUVER WA
98685-1147
TIM BERGE SALMON CREEK WWTP - BURIEN 12550 SHOREWOOD DR SW BURIEN WA 98146-
2428
ROBERT KODEN SEASHORE VILLA WWTP 4023 LIBBY RD NE OLYMPIA WA 98506
DALE VELASQUEZ SEDRO-WOOLLEY WWTP 720 MURDOCK ST SEDRO-WOOLLEY WA 98284
TODD LAROCHE SELAH WWTP 115 W NACHES AVE SELAH WA 98942
JOHN KINNEY SELKIRK SCHOOL DISTRICT #70 WWTP 10372 HWY 31 IONE WA 99139-9613
DAVE HOWAT SEQUIM BAY SP STP 269035 HWY 101 SEQUIM WA 98382
AL CHRISMAN SEQUIM WWTP 152 WEST CEDAR ST SEQUIM WA 98382
WARREN DAMSCHEN SEVEN BAYS ESTATES STP 1612 SEVEN BAYS RD DAVENPORT WA
99122
JOHN OZGA SHELTON WWTP P.O. BOX 1277 SHELTON WA 98584
KELLY WYNN SKAGIT CNTY SEWER DIST #2 WWTP 17079 STATE ROUTE 9 MOUNT VERNON
WA 98273
JEFF EZZY SNOHOMISH WWTP 116 UNION AVE SNOHOMISH WA 98290
JEFF NELSON SNOQUALMIE PASS UTIL DIST WWTP PO BOX 131 SNOQUALMIE PASS WA
98068
VERNON AILEMAND SNOQUALMIE WWTP PO BOX 987 SNOQUALMIE WA 98065
M. COTES SNOWBLAZE CONDOS STP P.O.BOX 912 MEAD WA 99021
JIM WHITMORE SOAP LAKE WWTP PO BOX 1270 SOAP LAKE WA 98851
DALE SEAMAN SOUTH BEND WWTP PO DRAWER 9 SOUTH BEND WA 98586
LARRY HARTER SOUTH PRAIRIE WWTP PO BOX F SOUTH PRAIRIE WA 98385
WILLIAM BURNWELL SOUTH TREATMENT PLANT (RENTON) 201 S JACKSON, MS KSC-NR-
0501 SEATTLE WA 98104
TIM PELTON SPOKANE ADVANCED WWTP 4401 N AUBREY L WHITE PKWY SPOKANE WA
99205-3939
CHRIS CANADAY SPRAGUE WWTP PO BOX 264 SPRAGUE WA 99032-0264
CHUCK HAWLEY SPRINGDALE WWTP PO BOX 220 SPRINGDALE WA 99173
WAYNE BLY ST. JOHN WWTP PO BOX 298 ST JOHN WA 99171

KEVIN HUSHAGEN STANWOOD WWTP 10220 270TH ST NW STANWOOD WA 98292
TOM POPLAWSKI STEAMBOAT ROCK STATE PARK PO BOX 370 ELECTRIC CITY WA 99123-0352
STEVE SAUNDERS STEHEKIN DIST WWTP PO BOX 7 STEHEKIN WA 98852
MIKE SETTON STELLA STP 8525 OCEAN BEACH HWY LONGVIEW WA 98632
STEVE BREWER STEVENS PASS SEWER DIST WWTP PO BOX 98 LEAVENWORTH WA 98826
DOUG NICHOLS STEVENSON WWTP PO BOX 371 STEVENSON WA 98648
CONNIE DUNN SULTAN WWTP P.O. BOX 1199 SULTAN WA 98294
GREG KONGSLIE SUMNER WWTP 1104 MAPLE STREET SUMNER WA 98390-1423
DAVID WEST SUN LAKES STATE PARK 34875 PARK LAKE RD NE COULEE CITY WA 99115
WILLIAM THOMSEN SUNLAND WATER DIST WWTP 137 FAIRWAY DRIVE SEQUIM WA 98382
JOE ORTEGA SUNNYSIDE, CITY OF, WWTP 818 EAST EDISON AVE SUNNYSIDE WA 98944
RALPH DECLEMENTS SUQUAMISH WWTP 614 DIVISION ST, MS-27 PORT ORCHARD WA 98366
WAYNE CHIPMAN SURFSIDE INN CONDO #1 STP 31512 J PLACE OCEAN PARK WA 98640
JEFF MATHIAS TAHOMA WOODS WWTP TAHOMA WOODS STAR ROUTE ASHFORD WA 98304
BILL CHAMPION TAMOSHAN WWTP 921 LAKERIDGE DR SW BLDG #4 OLYMPIA WA 98502
LARRY WILLIAMS TAYLOR BAY WWTP 8215 175TH AVE KPS LONGBRANCH WA 98351
DAVID TYSZ TEKOA WWTP PO BOX 927 TEKOA WA 99033
LES ELDREDGE TENELCO INCORPORATED BOX A-28-621 SR 9 NE LAKE STEVENS WA 98258
CARL STRICKLAND TIETON WWTP PO BOX 357 TIETON WA 98947
CLARENCE TJOELKER TJOELKER ENTERPRISES WWTP 9410 DELTOP ROAD BLAINE WA 98230
CHARLES BROWN TOLEDO WWTP PO BOX 236 TOLEDO WA 98591
HUGH JENSEN TONASKET SEWER LAGOONS PO BOX 487 TONASKET WA 98855
DENNIS BAKER TOUTLE WWTP 207 FOURTH AVE N KELSO WA 98626
GARY MCCONNELL TWISP WWTP PO BOX 278 TWISP WA 98856
BILL FRYE UNIONTOWN SEWER SYSTEM PO BOX 87 UNIONTOWN WA 99179
RON TURNER UPPER COLUMBIA ACADEMY STP 3025 E SPANGLE-WAVERLY RD SPANGLE WA 99031
SHELBY ELWOOD VADER WWTP PO BOX 189 VADER WA 98593
MIKE PRICE VANCOUVER EAST (MARINE PARK) 2323 W MILL PLAIN BLVD VANCOUVER WA 98660
MIKE PRICE VANCOUVER WESTSIDE TP 2323 W MILL PLAIN BLVD VANCOUVER WA 98660
MICHAEL WOOD W/W PUMPING SERVICE, INC 2175 N WENATCHEE AVE WENATCHEE WA 98801
DANIEL KATSEL WAITSBURG STP PO BOX 35 WAITSBURG WA 99361
DAVE SELLERS WAITTS LAKE/VALLEY SEWER TREAT PO BOX 592 LOON LAKE WA 99148
THOMAS HOWELLS WALLA WALLA WATER DIST.#2 POTW 418 N ROOSEVELT WALLA WALLA WA 99362
WILLIAM BRESHEARS WALLA WALLA WWTP 572 HATCH STREET WALLA WALLA WA 99362-5501
MIKE THOMPSON WARDEN WWTP 201 S ASH ST WARDEN WA 98857
KELLY WYNN WARM BEACH CAMPGROUND WWTP 20800 MARINE DR STANWOOD WA 98292

GEORGE CAMPBELL WASHINGTON CORRECTIONS CENTER PO BOX 900 SHELTON WA 98594
DALE HAMMRICH WASHOUGAL WWTP 1701 C STREET WASHOUGAL WA 98671
BOB BRODAHL WASHTUCNA WWTP PO BOX 713 WASTUCNA WA 99371
MARTIN RAMIN WATERVILLE WWTP PO BOX 580 WATERVILLE WA 98858
TOM HARDIE WENATCHEE WWTP PO BOX 519 WENATCHEE WA 98801
RICHARD FINGER WEST POINT WWTP 201 S JACKSON, MS KSC-NR-0501 SEATTLE WA 98104
ROBERT HUGHES WEST RICHLAND/ NORTH WWTP 3801 WEST VAN GIESON WEST
RICHLAND WA 99353
MICHAEL KITCHELL WESTPORT WWTP PO BOX 505 WESTPORT WA 98595
DON DRUMMOND WHATCOM CNTY WATER DIST #13 TP PO BOX 280 MAPLE FALLS WA
98266
DAVE BONVOULOIR WHIDBEY ISLAND STP PO BOX 5000 COUPEVILLE WA 98239-5000
JAMES POPE WILBUR WWTP PO BOX 214 WILBUR WA 99185
LEON RUPP WILKESON WWTP 540 CHURCH ST, PO BOX 89 WILKESON WA 98396
GARY LACY WINLOCK WWTP PO BOX 777 WINLOCK WA 98596
RICHARD KARRO WINTHROP WWTP PO BOX 459 WINTHROP WA 98862
DOUG MILLER WISHRAM WWTP 1313 S COLUMBUS AVE GOLDENDALE WA 98620
DENNIS BAKER WOODBROOK WWTP 207 4TH AVE N KELSO WA 98626
MARK MORGAN WOODLAND WWTP P.O. BOX 9, 230 DAVIDSON WOODLAND WA 98674
DARYL BULLERD YAKIMA REGIONAL WWTP 2220 E VIOLA YAKIMA WA 98902
JON YANASAK YELM WWTP PO BOX 479 YELM WA 98597
TIM TILLEY ZILLAH WWTP PO BOX 475 ZILLAH WA 98953